

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (original): Plate heat exchanger with a heat exchanger block which has a multiplicity of heat exchange passages, the heat exchanger block having mounted upon it a header which extends over at least part of one side of the heat exchanger block and makes a flow connection between part of the heat exchange passages and which is provided with a fluid connection, the fluid connection being arranged essentially perpendicularly to that side of the heat exchanger block over which the header extends, characterized in that means (23, 24) for routing the flow of the fluid supplied or discharged via the fluid connection (12, 13) are provided within the header (6, 7).

Claim 2 (original): Plate heat exchanger according to Claim 1, characterized in that the header (6, 7) possesses a semicircular cross section.

Claim 3 (currently amended): Plate heat exchanger according to ~~either of Claims 1 and 2~~ Claim 1, characterized in that the plate heat exchanger has a plurality of heat exchanger blocks (1a, 1b), and a header (6a, 6b; 7a, 7b) in which the flow connection between heat exchange passages of various heat exchanger blocks (1a, 1b) is made.

Claim 4 (original): Plate heat exchanger according to Claim 3, characterized in that the heat exchanger blocks (1a, 1b) are arranged, spaced apart, next to one another, and the gap between the heat exchanger blocks (1a, 1b) is closed by means of a sheet (16, 27) or a strip in such a way that that side of the header (6a, 6b; 7a, 7b) which faces the heat exchanger blocks (1a, 1b) is completely covered by the side faces (5a, 5b; 6a, 6b) of the heat exchanger block (1a, 1b) and/or the sheet (16, 27).

Claim 5 (New): Plate heat exchanger according to Claim 2, characterized in that the plate heat exchanger has a plurality of heat exchanger blocks (1a, 1b), and a header (6a, 6b; 7a, 7b) in which the flow connection between heat exchange passages of various heat exchanger blocks (1a, 1b) is made.

Claim 6 (New): Plate heat exchanger according to Claim 5, characterized in that the heat exchanger blocks (1a, 1b) are arranged, spaced apart, next to one another, and the gap between the heat exchanger blocks (1a, 1b) is closed by means of a sheet (16, 27) or a strip in such a way that that side of the header (6a, 6b; 7a, 7b) which faces the heat exchanger blocks (1a, 1b) is completely covered by the side faces (5a, 5b; 6a, 6b) of the heat exchanger block (1a, 1b) and/or the sheet (16, 27).